

## **IMPROVED BACK FLOW PREVENTING EDUCTOR**

### **Abstract**

An anti-backflow eductor has a resilient sealing sleeve disposed on a water port defining blind end tube. The sleeve has a thinner wall cross section at a discharge end to enhance sealing while facilitating increased water flow. The 5 ports in the blind end tube extend into a radial tube flange at the tube's inlet end to facilitate water flow out of the ports between the sleeve and tube. A tapered seat in the housing, together with cross bars in the vents, reduces the air vent cross section and relative motion between sleeve and housing to reduce sleeve wear. The eductor comprises an anti-backflow housing and a venturi housing 10 coupled together for relative rotation but being inseparable under normal conditions to inhibit venturi use without the anti-backflow function of the anti-backflow housing.